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## NOTICE OF ALLOWANCE AND FEE(S) DUE

27367

7590

09/22/2008

WESTMAN CHAMPLIN & KELLY, P.A. SUITE 1400 900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3244 EXAMINER

NGUYEN, VI X

ART UNIT PAPER NUMBER

3734

DATE MAILED: 09/22/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/694,293	10/23/2000	Stephen T. Kuehn	S16.12-0101	1653

TITLE OF INVENTION: MITRAL AND TRICUSPID VALVE REPAIR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$1440	\$1440	12/22/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including ed below or directed oth	ng the Patent, advance of herwise in Block 1, by (	orders and notification of nation a) specifying a new corres	naintenance fees wi pondence address;	Il be mailed to the current and/or (b) indicating a separate	correspondence address as trate "FEE ADDRESS" for	
		lock 1 for any change of address)	Feet	(c) Transmittal This	nailing can only be used fo certificate cannot be used f paper, such as an assignme of mailing or transmission.	or any other accompanying	
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MINNEAPOLIS	S, MN 55402-3244					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/694,293	10/23/2000	•	Stephen T. Kuehn	•	S16.12-0101	1653	
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nonprovisional	NO	\$1440	\$0	\$1440	\$1440	12/22/2008	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
NGUYE	EN, VI X	3734	606-139000				
1. Change of correspond CFR 1.363).	ence address or indication	on of "Fee Address" (37	2. For printing on the p		1		
	oondence address (or Cha B/122) attached.	ange of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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PLEASE NOTE: Un	less an assignee is ident	tified below, no assignee	data will appear on the pa	atent. If an assigned	e is identified below, the d	ocument has been filed for	
(A) NAME OF ASSI	•	pletion of this form is NU	T a substitute for filing an (B) RESIDENCE: (CITY	_	DUNTRY)		
(11) 111 111 01 11001			(B) TEESEE (CIT I		, o.i.(1 <b>.i.</b> )		
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent): $\Box$	Individual 🖵 Cor	poration or other private gro	oup entity 🚨 Government	
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	se first reapply any	previously paid issue fee	shown above)	
Issue Fee			A check is enclosed.				
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
			overpayment, to Depo	sit Account Number	(enclose a	n extra copy of this form).	
5. Change in Entity Sta	<b>itus</b> (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no lon	gar claiming SMALI	L ENTITY status. See 37 Cl	∃P 1.27(α)(2)	
NOTE: The Issue Fee an	nd Publication Fee (if req	uired) will not be accepte	ed from anyone other than t		ered attorney or agent; or the		
interest as shown by the	records of the United Sta	ites Patent and Trademark	k Office.				
Authorized Signature				Date			
Typed or printed name				Registration No	) <b>.</b>		
This collection of inform	nation is required by 37 (	CFR 1 311. The information	on is required to obtain or r	etain a benefit by the	e public which is to file (and	by the USPTO to process)	
an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V	ntiality is governed by 35 dapplication form to the ions for reducing this bu Virginia 22313-1450. DO	5 U.S.C. 122 and 37 CFR c USPTO. Time will vary rden, should be sent to th	1.14. This collection is est y depending upon the indiv ne Chief Information Office	imated to take 12 m idual case. Any con er. U.S. Patent and T	inutes to complete, includin nments on the amount of the rademark Office, U.S. Depo SEND TO: Commissioner	g gathering, preparing, and ne you require to complete artment of Commerce, P.O.	
Alexandria, Virginia 223	313-1450.						

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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09/694,293	10/23/2000	Stephen T. Kuehn	S16.12-0101 1653			
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WESTMAN CH	AMPLIN & KELLY	NGUYE	N, VI X			
SUITE 1400			ART UNIT	PAPER NUMBER		
900 SECOND AV MINNEAPOLIS, N			3734 DATE MAILED: 09/22/200	8		

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 6 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 6 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
Notice of Allowability	09/694,293 <b>Examiner</b>	KUEHN ET AL.  Art Unit			
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	Victor X. Nguyen	3734			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commitments. This application is	n this application. If not included unication will be mailed in due of	d ourse. <b>THIS</b>		
1. This communication is responsive to 7/2/2007 and 4/16/20	<u>08</u> .				
2. X The allowed claim(s) is/are <u>1,4,5,7,10-13,18,20,23-26,28,3</u>	<u>10-33 and 36-38</u> .				
<ul> <li>3. Acknowledgment is made of a claim for foreign priority unally all blooms. All blooms because the priority documents have a claim for foreign priority unall blooms.</li> <li>1. Certified copies of the priority documents have a claim for foreign priority unall blooms.</li> <li>2. Certified copies of the priority documents have a claim for foreign priority unall blooms.</li> <li>3. Copies of the certified copies of the priority documents.</li> </ul>	been received. been received in Applicati	on No	on from the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requ	ıirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w ( PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ack) of		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)	5 <b></b>	oformed Delevil A . " . "			
1. Notice of References Cited (PTO-892)	<u> </u>	nformal Patent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), ./Mail Date			
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's	Amendment/Comment			
Paper No./Mail Date <u>4/16/2008;5/12/2008</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allow	/ance		
of Biological Material	9.				
/Kevin T. Truong/		_			
Primary Examiner, Art Unit 3734					

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Art Unit: 3734

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. The application has been amended as follows:

Claim 39 was canceled due to dependent on canceled claim 21.

#### **EXAMINER'S COMMENT**

- 2. The Notice of Allowance is responsive to applicant's amendment filed 7/2/2007 and 4/16/2008. The amendment and arguments, see pages 7-9, filed therein has overcome the rejection of claims 1,18 and 30 under 35 USC 102 (b) and 103(a) mailed on 3/29/2007. Therefore, the rejection claims have been withdrawn.
- 3. The following is a statement of reasons for the indication of allowable subject matter:

  The claims in the instant application have not been rejected using prior art because no references, or reasonable combination thereof, could be found which disclose or suggest a heart valve leaflet fastener comprising one pair of arm, where at least one arm of the pair of arms has a tapered protrusion extending toward the other arm of the pair of arms and the other arm of the at least one pair of arm having a tapered slot for accepting the tapered protrusion therein, where the arms pivot from one orientation to a gripping position with ends of respective paired arms being directed toward each other such that the tapered protrusion positions within the tapered slot to grip the two adjacent tissue heart valve leaflets. As to claim 18, the prior art does not teach the invention including, a heart valve repair instrument comprising a cap that is located distal to the

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pivot and the pivot is located distal to a shaft, where a flexible rod connects to the cap to provide for movement of the cap relative to the pivot of the gripper and the shaft by pulling the flexible rod, where the cap has an opening that can be positioned over the pivot to lock the arms in a closed position. As to claim 30, the prior art does not teach the invention including, a fastening member comprises a cap being slideable relative to a gripper, where the gripper comprises a plurality of arms radiating from a pivot, with at least a first arm having a tapered spike, and at least a second arm has a plurality of spikes such that a tapered slot is formed between the plurality of spikes, where the pivot is inserted within an opening in the cap to lock the arms in a collapsed gripping position such that the tapered spike positions within the tapered slot.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor X. Nguyen whose telephone number is (571) 272-4699. The examiner can normally be reached on M-F (8-4.30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ho Jackie can be reached on (571) 272-4697. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3734

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin T. Truong/ Primary Examiner, Art Unit 3734 /Victor X Nguyen/ Examiner Art Unit 3734

VN 9/5/2008